

REMARKS

Receipt of the Office Action mailed May 18, 2007 is acknowledged. Claim 22 has been amended. Support for the amendment can be found throughout the original disclosure, for example, at page 10, lines 5-19, in original Figure 3 and in the abstract of the disclosure. No new matter is believed to have been added. Entry of the foregoing amendment is respectfully requested because the amendment is believed to place the application into condition for allowance. Upon entry of the amendment claims 19-23 will be pending in the application.

35 USC Section 102(b) Rejection

Claims 20-22 stand rejected under 35 U.S.C. section 102(b) as being anticipated by Byrd (U.S. Patent No. 1,547,562). Reconsideration and withdrawal of the rejection are respectfully requested.

Applicants submit that Byrd fails to anticipate or render *prima facie* obvious the claimed invention for the reasons of record. However, in order to further prosecution applicants have amended the claims to recite that the transition zone between the different diameter cavities is a sharp demarcation, i.e., has a discontinuity, as clearly shown in Figure 3. Byrd does not teach or suggest a sharp demarcation transition zone. Instead, Byrd teaches away from a sharp transition zone, by disclosing a smooth transition between the various passages 6, 8 and 10 and chambers 7 and 9. Accordingly, reconsideration and withdrawal of the rejection are respectfully requested.

35 USC Section 103 Rejection

Claim 19 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Byrd. Reconsideration and withdrawal of the rejection are respectfully requested.

Applicants submit that Byrd fails to anticipate or render *prima facie* obvious the claimed invention for the reason set forth above. Accordingly, reconsideration and withdrawal of the rejection are respectfully requested.

The examination of these claims and passage to allowance are respectfully requested. An early Notice of Allowance is therefore earnestly solicited. Applicants invite the Examiner to contact the undersigned at (732) 524-1496 to clarify any unresolved issues raised by this response.

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Account No. 10-0750/CDS0255/TJB. This sheet is submitted in triplicate.

Respectfully submitted,

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